IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Andriessen) Attorney reference: 27500-72
Serial No.:	Unknown) Examiner: Unknown
Filing Date:	Attached)) Art Unit: Unknown
Title:	Preparation Of ZnS Particles Doped With Copper)))

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents Washington, DC 20231

Dear Sir:

The following amendment and remarks are submitted prior to counting the claims.

In the Claims:

Please amend claims 3, 5 and 7 in accordance with the instructions provided in Appendix A.

Please enter claims 8-29 in accordance with the instructions provided in Appendix A.

An unmarked copy of the claims is provided in Appendix B.

REMARKS

Claim amendments are entered to insure proper dependency.

Respectfully submitted,

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APPENDIX A -Claim Amendments

Please amend claims 3, 5 and 7 in accordance with the following instructions.

- 3.(Amended) A method according to claim 1 [or 2] wherein said copper ions are copper (I) ions.
- 5.(Amended) A method according to any of [claims 1 to 4] <u>claim 1</u> further comprising the step of subjecting the mixture formed by said precipitation step to a diafiltration and/or ultrafiltration treatment.
- 7.(Amended) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to [any of the previous claims] claim 1.

Please enter claims 8-29 as indicated.

- 8.(New) A method according to claim 2 wherein said copper ions are copper (I) ions.
- 9.(New) A method according to claim 8 wherein said copper (I) ions are incorporated as copper (I) chloride.

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- 10.(New) A method according to any of claim 2 further comprising the step of subjecting the mixture formed by said precipitation step to a diafiltration and/or ultrafiltration treatment.
- 11.(New) A method according to claim 10 wherein said diafiltration and/or ultrafiltration treatment is performed in the presence of a compound preventing agglomeration of said ZnS:Cu particles.
- 12.(New) A method according to any of claim 3 further comprising the step of subjecting the mixture formed by said precipitation step to a diafiltration and/or ultrafiltration treatment.
- 13.(New) A method according to claim 12 wherein said diafiltration and/or ultrafiltration treatment is performed in the presence of a compound preventing agglomeration of said ZnS:Cu particles.
- 14.(New) A method according to any of claim 4 further comprising the step of subjecting the mixture formed by said precipitation step to a diafiltration and/or ultrafiltration treatment.
- 15.(New) A method according to claim 14 wherein said diafiltration and/or ultrafiltration treatment is performed in the presence of a compound preventing agglomeration of said ZnS:Cu particles.

- 16.(New) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 2.
- 17.(New) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 3.
- 18.(New) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 4.
- 19.(New) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 5.
- 20.(New) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 6.
- 21.(New) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 7.
- 22.(New) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 8.
- 23.(New) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 9.

24.(New)	A Thin Film Inorganic Light Emitting Diode device comprising a coated layer
	containing ZnS:Cu particles prepared by a method according to claim 10.

- 25.(New) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 11.
- 26.(New) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 12.
- 27.(New) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 13.
- 28.(New) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 14.
- 29.(New) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 15.

APPENDIX B - Unmarked Claims As Amended Or Newly Entered

- 1. A method for the preparation of a dispersion of zinc sulfide particles doped with copper (ZnS:Cu), said method comprising the step of performing a precipitation by mixing together a zinc salt, a sulfide, and a citrate or EDTA complex of copper ions, dissolved in several aqueous solutions.
- 2. A method according to claim 1 wherein said precipitation is performed according to the double jet principle, whereby a first solution containing said zinc salt and said citrate or EDTA complex of copper ions, and a second solution containing said sulfide are added simultaneously to a third solution.
- 3. A method according to claim 1 wherein said copper ions are copper (I) ions.
- 4. A method according to claim 3 wherein said copper (I) ions are incorporated as copper (I) chloride.
- 5. A method according to any of claim 1 further comprising the step of subjecting the mixture formed by said precipitation step to a diafiltration and/or ultrafiltration treatment.
- 6. A method according to claim 5 wherein said diafiltration and/or ultrafiltration treatment is performed in the presence of a compound preventing agglomeration of said ZnS:Cu particles.

- 7. A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 1.
- 8. A method according to claim 2 wherein said copper ions are copper (I) ions.
- 9. A method according to claim 8 wherein said copper (I) ions are incorporated as copper (I) chloride.
- 10. A method according to any of claim 2 further comprising the step of subjecting the mixture formed by said precipitation step to a diafiltration and/or ultrafiltration treatment.
- 11. A method according to claim 10 wherein said diafiltration and/or ultrafiltration treatment is performed in the presence of a compound preventing agglomeration of said ZnS:Cu particles.
- 12. A method according to any of claim 3 further comprising the step of subjecting the mixture formed by said precipitation step to a diafiltration and/or ultrafiltration treatment.
- 13. A method according to claim 12 wherein said diafiltration and/or ultrafiltration treatment is performed in the presence of a compound preventing agglomeration of said ZnS:Cu particles.
- 14. A method according to any of claim 4 further comprising the step of subjecting the mixture formed by said precipitation step to a diafiltration and/or ultrafiltration treatment.

- 15. A method according to claim 14 wherein said diafiltration and/or ultrafiltration treatment is performed in the presence of a compound preventing agglomeration of said ZnS:Cu particles.
- 16. A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 2.
- 17. A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 3.
- 18. A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 4.
- 19. A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 5.
- 20. A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 6.
- 21. A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 7.
- 22. A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 8.

- 23. A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 9.
- 24. A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 10.
- 25. A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 11.
- 26. A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 12.
- 27. A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 13.
- 28. A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 14.
- 29. A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 15.